

INFORMATION DISCLOSURE STATEMENT

David Haffner et al.

App. No.

10/634,213

Filed

August 5, 2003

For

DEVICES AND METHODS FOR

GLAUCOMA TREATMENT

Examiner

Unknown

Group Art Unit

Unknown

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Enclosed is form PTO-1449 listing 202 references. Copies of disclosed U.S. patents and/or publications are not included pursuant to PTO waiver of the requirement under 37 C.F.R. § 1.98(a)(2)(i) for applications filed after June 30, 2003. Copies of all other references, if listed, are enclosed.

This Information Disclosure Statement is being filed within three months of the filing date of this application and no fee is required in accordance with 37 C.F.R. § 1.97(b)(1), (b)(2), or (b)(4).

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: / b/ \ 3/ \ \ 3

Registration No. 46,396

Attorney of Record Customer No. 20,995

(949) 760-0404

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT **BY APPLICANT** SE SEVERAL SHEETS IF NECESSARY)

ATTY. DOCKET NO. GLAUKO.011CP1	APPLICATION NO. 10/634,213
APPLICANT David Haffner et al.	
FILING DATE August 5, 2003	GROUP Unknown

U.S. PATENT DOCUMENTS									
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)		
	1	RE. 35,390	12/03/96	Smith					
	2	3,788,327	01/29/74	Donowitz et al.					
	3	4,037,604	07/26/77	Newkirk					
-	4	4,168,697	09/25/79	Cantekin					
	5	4,175,563	11/27/79	Arenberg et al.			. 4.7.		
	6	4,402,681	09/06/83	Haas et al.					
	7	4,428,746	01/31/84	Mendez					
	8	4,501,274	02/26/85	Skjaerpe					
	9	4,521,210	06/04/85	Wong					
	10	4,554,918	11/26/85	White					
	11	4,604,087	08/05/86	Joseph			- ***		
	12	4,632,842	12/30/86	Karwoski et al.					
	13	4,634,418	01/06/87	Binder					
	14	4,718,907	01/12/88	Karwoski et al.					
	15	4,722,724	02/02/88	Schocket					
	16	4,733,665	03/29/88	Palmaz					
	17	4,750,901	06/14/88	Molteno					
	18	4,787,885	11/29/88	Binder					
	19	4,804,382	02/14/89	Turina et al.					
	20	4,820,626	04/11/89	Williams et al.					
	21	4,846,172	07/11/89	Berlin					
	22	4,853,224	08/01/89	Wong					
	23	4,863,457	09/05/89	Lee		-			
	24	4,883,864		Scholz					
	25	4,886,488	12/12/89	White					
	26	4,900,300		Lee					
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	28	4,946,436	08/07/90	Smith					
2 1 1	29	4,968,296	11/06/90	Ritch et al.					
_	30	4,997,652	03/05/91	Wong			· · ·		
	31	5,041,081	08/20/91	Odrich					
	32	5,073,163	12/17/91	Lippman					
	33	5,092,837	03/03/92	Ritch et al.					
	34	5,095,887	03/17/92	Leon et al.					
	35	5,127,901	07/07/92	Odrich					
	36	5,129,895	07/14/92	Vassiliadis et al.					
	37	5,164,188	11/17/92	Wong					
	38	5,171,213	12/15/92	Price, Jr.					
	39	5,178,604	01/12/93	Baerveldt et al.			4. 1.1 .		
	40	5,180,362	01/19/93	Worst					
	41	5,246,451	09/21/93	Trescony et al.					
	42	5,290,295	03/01/94	Querals et al.					
	43	5,300,020	04/05/94	L'Esperance, Jr.					
	44	5,318,513	06/07/94	Leib et al.			- .		
	45	5,334,137	08/02/94	Freeman					
	46	5,338,291	08/16/94	Speckman et al.					
	47	5,346,464	09/13/94	Camras			****		
	48	5,360,399	11/01/94	Stegmann					
	49	5,370,607	12/06/94	Memmen					
	50	5,370,641	12/06/94	O'Donnell, Jr.			- <u> </u>		
	51	5,372,577	12/13/94	Ungerleider			<u> </u>		
	52	5,397,300	03/14/95	Baerveldt et al.					
	53	5,433,701	07/18/95	Rubinstein					
	54	5,443,505	08/22/95	Wong et al.					

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*EXAMMER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

FORM PTO-1449

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	55	5,454,796	10/03/95	Krupin			(II AFFRORRIE)
	56	5,476,445	12/19/95	Baerveldt et al.			
	57	5,472,440	12/05/95	Beckman			
	58	5,486,165	01/23/96	Stegmann	 		
	59	5,516,522	05/14/96	Peyman et al.		,	
	60	5,520,631	05/28/96	Nordquist et al.			
	61	5,557,453	09/17/96	Schalz et al.			
	62	5,558,629	09/24/96	Baerveldt et al.			
	63	5,558,630	09/24/96	Fisher			
	64	5,562,641	10/08/96	Flomenblit et al.			
	65	5,601,094	02/11/97	Reiss			
	66	5,601,549	02/11/97	Miyagi			
	67	5,626,558	05/06/97	Suson			
	68	5,626,559	05/06/97	Solomon			
	69	5,639,278	06/17/97	Dereume et al.			
	70	5,651,783	07/29/97	Reynard			
·	71	5,665,114	09/09/97	Weadock et al.			
	72	5,670,161	09/23/97	Healy et al.			
	73	5,676,679	10/14/97	Simon et al.			
	74	5,681,275	10/28/97	Ahmed			<u>,</u>
	75	5,702,414	12/30/97	Richter et al.			
	76	5,702,419	12/30/97	Berry et al.			
	77	5,704,907	01/06/98	Nordquist et al.			
	78	5,713,844	02/03/98	Peyman			
_	79	5,723 005	03/03/98	Herrick			· · · · · · · · · · · · · · · · · · ·
	80	5,741,333	04/21/98	Frid			
	81	5,743,868	04/28/98	Brown et al.			

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August 5, 2003

David Haffner et al.

FILING DATE GROUP

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U.S. PATENT DOCUMENTS EXAMINER DOCUMENT NUMBER DATE CLASS SUBCLASS NAME **FILING DATE** INITIAL (IF APPROPRIATE) 82 05/19/98 de Roulhac et al. 5,752,928 83 5,766,242 06/16/98 Wong et al. 84 5,766,243 06/16/98 Christensen et al. 85 5,785,674 07/28/98 Mateen 86 5,807,202 09/15/98 Wandel 87 5,810,870 09/22/98 | Myers et al. 88 5,824,072 10/20/98 Wong 89 5,830,139 11/03/98 Abreu 90 5,830,171 11/03/98 | Wallace 91 5,836,939 11/17/98 Negus et al. 92 5,865,831 02/02/99 Cozean et al. 93 5,868,697 02/09/99 Richter et al. 94 5,879,319 03/09/99 Pynson et al. 95 5,882,327 03/16/99 Jacob 96 5,886,822 03/23/99 Spitzer 97 Eagles et al. 5,893,837 04/13/99 98 5,908,449 06/01/99 Bruchman et al. 99 5,932,299 08/03/99 Katoot 100 5,968,058 10/19/99 Richter et al. 101 5,981,598 11/09/99 Tatton 102 6,004,302 12/21/99 Brierley 103 6,007,510 12/28/99 Nigam 104 6,007,511 12/28/99 Prywes 105 6,033,434 03/07/00 Borghi 106 6,045,557 04/04/00 | White et al. 107 04/18/00 Baerveldt 6,050,970 108 6,059,772 05/09/00 Hsia et al.

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ATTY. DOCKET	NO.
GLAUKO 0110	P1

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U.S. PATENT DOCUMENTS									
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)		
	109	6,059,812	05/09/00	Clerc et al.					
	110	6,071,286	06/06/00	Mawad					
	111	6,174,305	01/16/01	Mikus et al.					
	112	6,228,873	05/08/01	Brandt et al.					
	113	6,231,597	05/15/01	Deem et al.					
	114	6,241,721	06/05/01	Cozean et al.			700.0		
	115	6,266,182	07/24/01	Morita					
-	116	6,268,398	07/31/01	Ghosh et al.					
	117	6,342,058	01/29/02	Portney					
	118	6,375,642	04/23/02	Grieshaber et al.					
	119	6,450,984	09/17/02	Lynch et al.					
	120	6,464,724	10/15/02	Lynch et al.					
	121	6,533,768	03/18/03	Hill					
	122	6,544,249	04/08/03	Yu et al.					
	123	6,063,116	05/16/00	Kelleher					
	124	6,063,396	05/16/00	Kelleher					
	125	6,077,299	06/20/00	Adelberg et al.					
	126	6,102,045	08/15/00	Nordquist et al.					
-	127	6,142,990	11/07/00	Burk					
	128	6,165,210	12/26/00	Lau et al.					
	129	6,168,575	01/02/01	Soltanpour					
	130	6,193,656	02/27/01	Jeffries et al.					
	131	6,197,056	03/06/01	Schachar					
	132	6,203,513	03/20/01	Yaron et al.					
	133	6,217,895	04/17/01	Guo et al.			***		
	134	6,251,090	06/26/01	Avery et al.					
	135	6,287,313	09/11/01	Sasso					

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO. GLAUKO.011CP1

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FILING DATE August 5, 2003

	U.S. PATENT DOCUMENTS											
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)					
	136	6,299,895	10/09/01	Hammang et al.								
	137	6,331,313	12/18/01	Wong et al.								
	138	6,413,540	07/02/02	Yaacobi								
	139	6,416,777	07/09/02	Yaacobi								
	140	6,436,427	08/20/02	Hammang et al.								
	141	6,533,768	03/18/03	Hill								
	142	6,544,249	04/08/03	Yu et al.								
	143	6,548,078	04/15/03	Guo et al.								
	144	2002/0013546	01/31/02	Grieshaber et al.								
	145	2002/0026200	02/28/02	Savage								
	146 .	2002/0072673	06/13/02	Yamamoto et al.			- · · · · · · · · · · · · · · · · · · ·					
	147	2002/0099434	07/25/02	Buscemi et al.			***************************************					
	148	2003/0069637	04/10/03	Lynch et al.								

	FOREIGN PATENT DOCUMENTS											
EXAMINER		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION					
INITIAL							YES	NO				
	149	WO 89/00869	02/09/89	PCT			•					
	150	WO 91/18568	12/12/91	PCT								
	151	WO 92/19294	11/12/92	РСТ								
	152	WO 94/13234	06/23/94	РСТ		****	<u>.</u>					
_	153	WO 94/21205	09/29/94	РСТ								
	154	WO 95/08310	03/30/95	РСТ								
	155	WO 98/30181	07/16/98	PCT				i				
	156	WO 98/35639	08/20/98	PCT								
	157	WO 99/26567	06/03/99	PCT								
	158	WO 99/30641	06/24/99	PCT			· · · · · · · · · · · · · · · · · · ·					

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FORM PTO-1449
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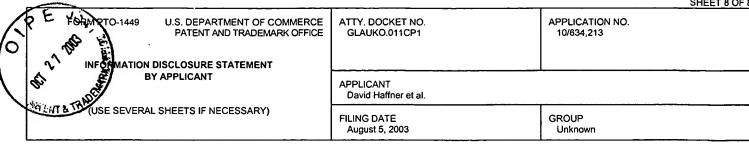
FILING DATE August 5, 2003 GROUP Unknown

	FOREIGN PATENT DOCUMENTS									
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS	LATION		
INITIAL					ļ		YES	NO		
	159	WO 99/38470	08/05/99	PCT						
	160	WO 00/13627	03/16/00	PCT						
	161	WO 00/64389	11/02/00	PCT						
	162	WO 00/64390	11/02/00	РСТ						
	163	WO 00/64391	11/02/00	PCT						
	164	WO 00/64393	11/02/00	PCT			_			
	165	WO 00/72788	12/07/00	PCT						
	166	WO 01/50943	07/19/01	PCT						
	167	WO 01/78631	10/25/01	PCT						
	168	WO 01/78656	10/25/01	PCT						
	169	WO 03/015659	02/27/03	PCT						
	170	AU 200072059	12/06/00	Australia						
	171	CA 2,244,646	08/11/98	Canada						
	172	DE 198 40 047	09/02/98	German						
	173	EP 0 858 788	03/31/98	Europe						
	174	EP 1 114 627	11/30/00	Europe						
	175	EP 0 898 947	07/14/98	Europe						
	176	GB 2 296 663	10/07/96	UK						
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EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)		
	179	Jacobi et al., Goniocurettage for Removing Trabecular Meshwork: Clinical Results of a New Surgical Technique in Advanced Chronic Open-Angle Glaucoma, American Journal of Ophtoalmology, May 1999, Vol. 127, No. 5, Pages 505-510.	
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	181	Jacobi et al., Microendoscopic Travecular Surgery in Glaucoma Management, American Journal of Ophtoalmology, March 1999, Vol. 106, No. 3, Pages 538-544.	

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EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
	182	Schwartz et al., <i>Trabecular Surgery</i> , Arch. Ophthalmol, August 1974, Vol. 92, Pages 134-138.
	183	Hill et al., Free-Electron Laser (FEL) Ablation of Ocular Tissues, Lasers Med Sci, 1998, Vol. 13, Pages 219-226.
	184	Luntz et al., <i>Traveculotomy AB Externo and Trabeculectomy in Congenital and Adult-Onset Glaucoma</i> , American Journal of Ophthalmology, February 1977, Vol. 83, No.2, Pages 174-179.
	185	W. M. Grant, Further Studies on Facility of Flow Through the Trabecular Meshwork, AMA Archives of Ophthalmology, October 1958, Vol. 60, Pages 523-533.
	186	Hill et al., Laser Trabecular Ablation (LTA), Lasers in Surgery and Medicine, 1991, Vol. 11, Pages 341-346.
	187	Spiegel et al., Schlemm's Canal Implant: A New Method to Lower Intraocular Pressure in Patients With POAG?, Ophthalmic Surgery and Lasers, June 1999, Vol. 30, No. 6, Pages 492-494.
	188	L.J. Katz, A Call for Innovative Operations for Glaucoma, Arch. Ophthalmol, March 2000, Vol. 118, Pages 412-413.
	189	Detlev Spiegel, Benefits and Risks of Ophthalmological Therapy: 7 Surgical Glaucoma Therapy, Main Presentataions at the XXXIII Continuing Education for Ophthalmologists in Essen (Germany), published December 1998.
	190	Hoerauf et al., Slit-lamp-adapted optical coherence tomography of the anterior segment, Graefe's Arch Clin Exp Ophthalmol (2000), Vol. 237, Pages 8-18.
	191	Radhakrishnan et al., Real-Time Optical Coherence Tomography of the Anterior Segment at 1310 nm, Arch Ophthalmol, August 2002, Vol. 119, Pages 1179-1185.
	192	Grierson et al., Age-related Changes in the Canal of Schlemm, Eye Res. (1984) Vol. 39, Pages 505-512.
	193	Putney et al., Intracellular C1 regulates Na-K-C1 cotransport activity in human trabecular meshwork cells, American Journal of Physiology, September 1999, Vol. 277, Pages C373-383.
	194	K. Strange, Cellular and Molecular Physiology of Cell Volume Regulation, CTC Press, Inc: 1994, Pages 311-321.
	195	Tatton et al., Maintaining Mitochondrial Membrane Impermeability: An opportunity for New Therapy in Glaucoma?, Survey of Ophthalmology May 2001, Vol. 45, Supplement 3, Pages S277-283.
	196	R.W. Nickells, Apoptosis of Retinal Ganglion Cells in Glaucoma: An Update of the Molecular Pathways Involved in Cell Death, Survey of Ophthalmology June 1999, Vol. 43, Supplement 1, Pages S151-161.
	197	J.W. Rohen, Anatomy of the aqueous outflow channels, Glaucoma: Volume 1, Grune & Stratton: 1986. Pages 277-296.
	198	Matsumoto et al., <i>Trabecular Meshwork Phagocytosis in Glaucomatous Eyes</i> , Ophthalmologica 1997, Vol. 211, Pages 147-152.
	199	M. B. Shields, A Study Guide for Glaucoma, Williams & Wilkins: 1982, Pages 6-43.
	200	Johnstone et al., Cylindrical Tubular Structures Spanning from Trabecular Meshwork Across SC: Laboratory Studies With SEM, TEM & Tracers Correlated with Clinical Findings, Abstract Paper No. 18. Page 39 from American Glaucoma Society 12 th Annual Meeting.
	201	W.G. Tatton, Apoptotic mechanisms in neurodegeneration: Possible relevance to glaucoma, European Journal of Ophthalmology 1999, Vol. 9, Supplement 1, Pages S22-29.
	202	U.S. Patent Application Serial No. 09/452,963, filed December 2, 1999. Title: Expandable/Retractable Stent For Venous and Valvular Annulus Use.

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Case Docket No. GLAUKO.011CP1

Date: October **24**, 2003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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FOR GLAUCOMA

TREATMENT

Examiner

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Group Art Unit:

Unknown

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

October 24, 2003 (Date)

ames W. Hill, M.D., Reg. No. 46,396

TRANSMITTAL LETTER

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Enclosed for filing in the above-identified application are:

- (X) An Information Disclosure Statement.
- (X) A PTO Form 1449 with two hundred and two (202) references.
- (X) The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 11-1410.
- (X) Return prepaid postcard.

James W. Hill, M.D. Registration No. 46,396 Attorney of Record Customer No. 20,995 (949) 760-0404